

10/583 005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 November 2007 (15.11.2007)

PCT

(10) International Publication Number
WO 2007/130035 A1

(51) International Patent Classification:
B01D 53/14 (2006.01) *B01D 53/34* (2006.01)

(74) Agent: KRATZ, William, G., Jr.; Armstrong, Kratz, Quintos, Hanson & Brooks, LLP, Law & Finance Bldg., Suite 707, 429 Fourth Avenue, Pittsburgh, PA 15219 (US).

(21) International Application Number:
PCT/US2006/017153

(22) International Filing Date: 3 May 2006 (03.05.2006)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicants (for all designated States except US): S.A. SNC-LAVALIN EUROPE N.V. [BE/BE]; Avenue Louise 251, Box 16, B-1050 Brussels, Belgium (BE). CARMEUSE NORTH AMERICA SERVICES, INC. [US/US]; 11 Stanwix Street, Pittsburgh, PA 15222 (US).

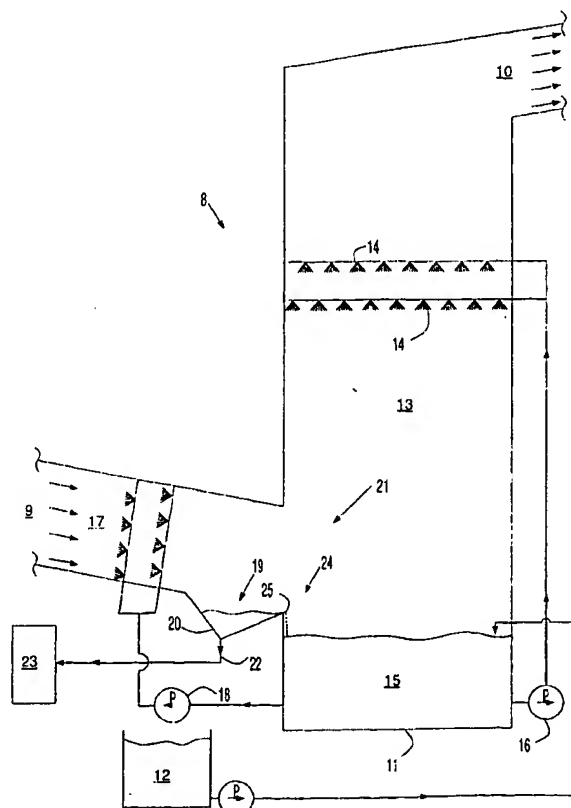
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicants and
(72) Inventors: ENGLEBERT, Benoit [BE/BE]; Tronkstraat 17, B-1860 Meise Belgium (BE). BLAUTE, Gerard [BE/BE]; 104 Rue de Familleureux, B-7190 Ecaussinnes (BE). SMITH, Kevin, J. [US/US]; 111 Watson Drive, Monongahela, PA 15063 (US).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,

[Continued on next page]

(54) Title: GAS QUENCH AND SCRUBBER DRAW-OFF SYSTEM



(57) Abstract: A gas desulfurization scrubbing system for removing sulfur oxides from gases, such as those of fossil fuel burning operations or other manufacturing process emitting sulfur oxides, and for collecting reaction products of the desulfurization chemical reactions. A quenching section is disposed in a gas duct upstream of a gas desulfurization scrubbing tower and a scrubbing slurry is provided at that section for quenching and chemically reacting with the gas. A quench reaction product is collected, at a location between the quenching section and the scrubbing tower, for use in making commercial by-products, such as gypsum.

WO 2007/130035 A1



RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report